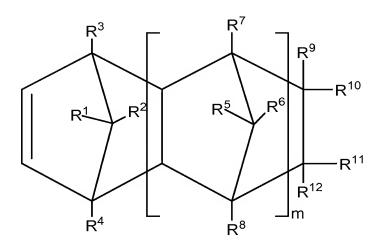
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Amendments to Claims

1. (Currently amended) A fluorine-containing copolymer comprising:

- a repeat unit derived from an ethylenically unsaturated compound a) having at least one fluorine atom covalently attached to an ethylenically unsaturated carbon atom; and
- b) a repeat unit derived from an ethylenically unsaturated cyclic compound of structure:



wherein m is 0, 1 or 2;

R¹ to R¹² are independently H, halogen, carboxyl, OH, or O₂C-R¹³, wherein R¹³ is a C₁-C₂₀ hydrocarbon group and at least one of R^1 to R^{12} is OH or O_2C - R^{13} .

- 2. (Currently amended) The fluorine-containing copolymer of Claim 1, wherein R¹ to R¹¹ are each hydrogen, m is zero, and R¹² is OH or O₂C-R¹³, wherein R^{13} is a C_1 - C_{20} hydrocarbon group.
- 3. (Original) The fluorine-containing copolymer of Claim 2, wherein R¹³ is a linear or branched alkyl group of 1 to 10 carbon atoms.
- 4. (Original) The fluorine-containing copolymer of Claim 3, wherein ${\sf R}^{13}$ is methyl, ethyl or propyl.
- 5. (Original) The fluorine containing copolymer of Claim 1, wherein the halogen is chlorine, fluorine, or bromine.

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(Original) The fluorine-containing copolymer of Claim 1, wherein repeat unit (a) is derived from tetrafluoroethylene, hexafluoropropylene, chlorotrifluoroethylene, trifluoroethylene, vinyl fluoride, vinylidene fluoride, perfluoro-(2,2-dimethyl-1,3-dioxole), perfluoro-(2-methylene-4-methyl-1,3-dioxolane), CF₂=CFO(CF₂)_tCF=CF₂, wherein t is 1 or 2, or R_fOCF=CF₂ wherein R_f is a saturated fluoroalkyl group of from 1 to 10 carbon atoms.

- 7. (Original) The fluorine-containing copolymer of Claim 6, wherein repeat unit (a) is derived from tetrafluoroethylene.
- 8. (Original) The fluorine-containing copolymer of Claim 1, further comprising a repeat unit derived from tert-butyl acrylate or methyl adamantyl acrylate.
- 9. (Original) The fluorine-containing copolymer of Claim 1, further comprising a repeat unit which is a norbornyl fluoroalcohol or a protected norbornyl fluoroalcohol.
- 10. (Original) The fluorine-containing copolymer of Claim 1, further comprising a fluoroalcohol group derived from an ethylenically unsaturated compound containing a fluoroalcohol group having the structure:

$$-C(R_f)(R_f')OH$$

wherein R_f and R_f' are the same or different fluoroalkyl groups of from 1 to 10 carbon atoms or taken together are $(CF_2)_n$ wherein n is 2 to 10.

11. (Original) The fluorine containing copolymer of Claim 1, further comprising an acid-containing or protected acid-containing structural unit:

$$(-CH_2 - CH_2 - CH_2$$

wherein E₁ is H or C₁-C₁₂ alkyl; E₂ is CO₂E₃, or SO₃E; and E and E₃ are H or unsubstituted or heteroatom-substituted C₁-C₁₂ alkyl.

12. (Original) The fluorine containing copolymer of Claim 11, wherein the heteroatom is S, O, or N.